

The Claims:

1-28. **(Cancelled)**

29. **(Previously Presented)** A stretchable stent, comprising:

a coiled-up sheet having overlapping inner and outer longitudinal sections extending generally parallel to a longitudinal axis thereof, the coiled-up sheet being expandable between a contracted condition and one or more enlarged conditions, the coiled-up sheet defining a periphery in a plane substantially perpendicular to a longitudinal axis thereof;

a plurality of locking elements extending from the inner longitudinal section for engaging openings in the outer longitudinal section to selectively secure the coiled-up sheet in the one or more enlarged conditions; and

a plurality of first cells, each first cell being defined by a stretchable element formed in the coiled-up sheet and having a first area, the stretchable elements having a shape memory such that the stretchable elements are plastically deformable towards an unstretched condition at a temperature at or below about 25 degrees Celsius, and biased to expand about the periphery from the unstretched condition towards a stretched condition when exposed to a temperature at or above body temperature;

wherein each stretchable element comprises a pair of peripherally expandable wing-like elements extending generally parallel to the longitudinal axis, each pair of peripherally expandable wing-like elements comprising a first longitudinal element and a second longitudinal element, each longitudinal element being curvilinear and having three turns between a first end and a second end of the longitudinal element, the first end being engaged to a peripheral connector element and the second end being engaged to a looped end, the looped end engaging the first and second longitudinal elements;

a plurality of peripheral connector elements; and

a plurality of second cells, each second cell being defined by four longitudinal elements and two peripheral connector elements, each of the four longitudinal elements forming a portion of a different stretchable element, each second cell having a second area, the second area being greater than the first area when the stent is in the unstretched condition.

30. **(Previously Presented)** The stretchable stent of claim 29, wherein circumferentially

adjacent stretchable elements being connected at a point intermediate the pair of wing-like elements by a peripheral connector element.

Claims 31-54. **(Cancelled)**

55. **(Previously Presented)** A stretchable stent, comprising:

a coiled-up sheet having overlapping inner and outer longitudinal sections extending generally parallel to a longitudinal axis thereof, and defining a periphery, the coiled-up sheet being unrollable between a contracted condition and one or more enlarged conditions; and

a plurality of stretchable cells formed in the coiled-up sheet, each stretchable cell defining a first cell, the first cell having a first size when the stent is in the contracted condition, each stretchable cell being defined by a pair of peripherally expandable wing-like elements extending generally parallel to the longitudinal axis, each of said wing-like elements comprising first and second members that are curvilinear and have three turns between a looped end thereof, the wing-like elements being expandable about the periphery between an unstretched condition to facilitate placement in a delivery device in the contracted condition and a stretched condition to facilitate expansion of the coiled-up sheet to the one or more enlarged conditions upon deployment from the delivery device;

circumferentially adjacent stretchable cells being engaged by a peripheral connector element and longitudinally adjacent stretchable cells being engaged at their looped ends thereby forming a plurality of quartets of stretchable cells, a plurality of second cells wherein each second cell is defined by two peripheral connector elements and four curvilinear members, one curvilinear member from each stretchable cell forming one quartet of the plurality of quartets of stretchable cells, the second cell having a second size when the stent is in the contracted condition, the second size being larger than the first size.

56. **(Previously Presented)** The stretchable stent of claim 55, further comprising a plurality of locking elements extending from the inner longitudinal section for engaging openings in the outer longitudinal section to selectively secure the coiled-up sheet in the one or more enlarged conditions.

57-58. **(Cancelled)**

59. **(Previously Presented)** An expandable stent, the expandable stent having an unexpanded state and an expanded state, the stent comprising:

a coiled-up sheet having overlapping inner and outer longitudinal sections extending generally parallel to a longitudinal axis thereof, the coiled-up sheet being expandable between a contracted condition and one or more enlarged conditions, the coiled-up sheet defining a periphery in a plane substantially perpendicular to a longitudinal axis thereof; and

a plurality of stretchable elements formed in the coiled-up sheet, the plurality of stretchable elements defining a plurality of first cells, each of the plurality of first cells having a first area when the stent is in an unstretched condition, wherein each stretchable element comprises a pair of peripherally expandable wing-like elements extending generally parallel to the longitudinal axis, each of said wing-like elements comprising first and second members that are curvilinear and have three turns and being connected to a longitudinally adjacent wing-like element at a looped end thereof, and wherein the stretchable elements have a shape memory such that the stretchable elements are plastically deformable towards the unstretched condition at a first temperature, and biased to expand about the periphery from the unstretched condition towards a stretched condition when exposed to a temperature at or above a second temperature;

a plurality of second cells, each second cell being defined by four longitudinal elements, each longitudinal element defining the second cell forming a portion of a different stretchable element, each of the plurality of second cells having a second area when the stent is in the unstretched condition, the second area being greater than the first area.

60. **(Previously Presented)** The expandable stent of claim 59, further comprising:

a plurality of locking elements extending from the inner longitudinal section for engaging openings in the outer longitudinal section to selectively secure the coiled-up sheet in the one or more enlarged conditions.

61. **(Cancelled)**

62. **(Previously Presented)** The expandable stent of claim 59, wherein said first temperature is at or below about 25 degrees Celsius, and said second temperature is body temperature.

63. **(Previously Presented)** The stretchable stent of claim 29, wherein the turns of the first longitudinal element and the turns of the second longitudinal element are circumferentially aligned.

64. **(Previously Presented)** The stretchable stent of claim 29, each longitudinal element being curvilinear and having three turns between the first end and the second end of the longitudinal element when the stent is in the contracted condition and when the stent is in an enlarged condition.

65-66. **(Cancelled)**